

## Product datasheet for **RG204523**

### WFDC5 (NM\_145652) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** WFDC5 (NM\_145652) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** WFDC5  
**Synonyms:** dj211D12.5; PRG5; WAP1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG204523 representing NM\_145652  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGACCCAGAGCCTTCTCCTCCTGGGGCCCTCCTGGCTGTGGGGAGTCAGCTGCCTGCTGTCTTTG  
GCAGGAAGAAGGGAGAGAAATCGGGGGCTGCCCGCCAGATGATGGGCCCTGCCTCCTATCGGTGCCTGA  
CCAGTGCCTGGAAGACAGCCAGTGTCCCTTGACCAGGAAGTGTGCTACAGAGCTTGCTCCGCCAGTGT  
GTCCCCAGGGTCTCTGTGAAGCTGGGCAGCTGCCAGAGGACCAACTGCGCTGCCTCAGCCCCATGAACC  
ACCTGTGTCACAAGGACTCAGACTGCTCGGGCAAAAAGCGATGCTGCCACAGCGCCTGCGGGCGGGATTG  
CCGGGATCCTGCCAGAGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204523 representing NM\_145652  
Red=Cloning site Green=Tags(s)  
MRTQSLLLL GALLAVGSQLPAVFGRRKKGKESGGCPPDDGPCLLSVPDQCVEDSQCP LTRKCCYRACFRQC  
VPRVSVKLGSCPEDQLRCLSPMNLCHKDSDCSGKRCCHSACGRDCRDPARG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_145652

**ORF Size:** 369 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_145652.4](#)

**RefSeq Size:** 1008 bp

**RefSeq ORF:** 372 bp

Locus ID: 149708

UniProt ID: [Q8TCV5](#)

Cytogenetics: 20q13.12

Protein Families: Secreted Protein

**Gene Summary:** This gene encodes a member of the WAP-type four-disulfide core (WFDC) domain family. Most WFDC proteins contain only one WFDC domain, and this encoded protein contains two WFDC domains. The WFDC domain, or WAP signature motif, contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor. Most WFDC gene members are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene belongs to the centromeric cluster. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG204523